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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,227	10/31/2003	Shmuel Ur	IL920030044US1 3388	
7590 09/21/2005			EXAMINER	
Stephen C. Kaufman			CHERRY, STEPHEN J	
Intellectual Prop	erty Law Dept.			
IBM Corporation			ART UNIT	PAPER NUMBER
P.O. Box 218			2863	
Yorktown Heights, NY 10598			DATE MAII ED: 00/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No.	Applicant(s)
•	10/699,227	UR ET AL.
Office Action Summary	Examiner	Art Unit
	. Stephen J. Cherry	2863
The MAILING DATE of this communication ap	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 12. This action is FINAL . 2b) ☑ The Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-43 is/are pending in the applicatio 4a) Of the above claim(s) 35-43 is/are withdra 5) Claim(s) 13-34 is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examir 10) The drawing(s) filed on 31 October 2003 is/ar Applicant may not request that any objection to th Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the file	re: a) \square accepted or b) \square objected by a displayment accepted or b) \square objected by a displayment acceptage acce	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been receiveau (PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 3-14-2005.	4) Interview Summar Paper No(s)/Mail E 5) Notice of Informal 6) Other:	

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DETAILED ACTION

Election/Restrictions

Claims 35-43 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 7-12-2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 6.243,862 to Lebow.

Claim 1 recites, as disclosed by Lebow ('862):

1. A method of verifying a design, comprising the steps of: generating a test case for execution using said design, wherein said design comprises a plurality of resources, one of said resources being required at a predetermined time to accommodate a signal during execution of said test case ('862, col. 19, line 42, and fig. 5, 102); designating said one resource as an unidentified resource ('862, col. 19, line 50, and fig. 5, 106); delaying binding said signal with said unidentified resource until immediately prior to said predetermined time; thereafter binding said

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signal with said unidentified resource to define a bound resource ('862, col. 19, line 54, and fig. 5, 108); and accessing said bound resource ('862, fig. 5, 118).

Claim 2 recites, as disclosed by Lebow ('862):

2. The method according to claim 1, further comprising the steps of: prior to said predetermined time copying said unidentified resource to another of said resources ('862, col. 19, , line 45, line of test script to parser); and after passage of said predetermined time binding said signal with said another resource ('862, fig. 5, 118).

Claim 3 recites, as disclosed by Lebow ('862):

3. The method according to claim 1, wherein said signal is an outcome determinative input to a Boolean function ('862, col. 19, line 64).

Claim 4 recites, as disclosed by Lebow ('862):

4. The method according to claim 3, further comprising the steps of:
designating a second one of said resources as a second unidentified
resource for accommodation of a second signal that is a second input of
said Boolean function, an output of said Boolean function being insensitive
to said second input; and avoiding binding said second unidentified
resource with said second signal during execution of said test case ('862,
fig. 5, branch from 122 to 102 depicts iterative operation wherein
parameters of subsequent missing commands are not supplied until after
execution of prior commands at 118).

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Claim 5 recites, as disclosed by Lebow ('862):

5. A computer software product, comprising a computer-readable medium in which computer program instructions are stored, which instructions, when read by a computer, cause the computer to verify a design by the steps of: generating a test case for execution using said design, wherein said design comprises a plurality of resources, one of said resources being required at a predetermined time to accommodate a signal during execution of said test case ('862, col. 19, line 42, and fig. 5, 102); designating said one resource as an unidentified resource ('862, col. 19, line 50, and fig. 5, 106); delaying binding said signal with said unidentified resource until immediately prior to said predetermined time during execution of said test case; thereafter binding said signal with said unidentified resource to define a bound resource ('862, col. 19, line 54, and fig. 5, 108); and accessing said bound resource ('862, fig. 5, 118).

Claim 6 recites, as disclosed by Lebow ('862):

6. The computer software product according to claim 5, wherein said computer is further instructed to perform the steps of: prior to said predetermined time copying said unidentified resource to another of said resources ('862, col. 19, , line 45, line of test script to parser); and after passage of said predetermined time binding said signal with said another resource ('862, fig. 5, 118).

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Claim 7 recites, as disclosed by Lebow ('862):

7. The computer software product according to claim 5, wherein said signal is an outcome determinative input to a Boolean function ('862, col. 19, line 64).

Claim 8 recites, as disclosed by Lebow ('862):

8. The computer software product according to claim 7, wherein said computer is further instructed to perform the steps of: designating a second one of said resources as a second unidentified resource for accommodation of a second signal that is a second input of said Boolean function, an output of said Boolean function being insensitive to said second input; and avoiding binding said second unidentified resource with said second signal during execution of said test case ('862, fig. 5, branch from 122 to 102 depicts iterative operation wherein parameters of subsequent missing commands are not supplied until after execution of prior commands at 118).

Claim 9 recites, as disclosed by Lebow ('862):

9. A verification system of verifying a design, comprising a test generator adapted to perform the steps of: generating a test case for execution using said design, wherein said design comprises a plurality of resources, one of said resources being required at a predetermined time to accommodate a signal during execution of said test case ('862, col. 19, line 42, and fig. 5, 102); designating said one resource as an unidentified resource ('862,

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col. 19, line 50, and fig. 5, 106); delaying binding said signal with said unidentified resource until immediately prior to said predetermined time; thereafter binding said signal with said unidentified resource to define a bound resource ('862, col. 19, line 54, and fig. 5, 108); and accessing said bound resource ('862, fig. 5, 118).

Claim 10 recites, as disclosed by Lebow ('862):

10. The verification system according to claim 9, wherein said test generator is further adapted to perform the steps of: prior to said predetermined time copying said unidentified resource to another of said resources ('862, col. 19, , line 45, line of test script to parser); and after passage of said predetermined time binding said signal with said another resource ('862, fig. 5, 118).

Claim 11 recites, as disclosed by Lebow ('862):

Claim 12 recites, as disclosed by Lebow ('862):

11. The verification system according to claim 9, wherein said signal is an outcome determinative input to a Boolean function ('862, col. 19, line 64).

12. The verification system according to claim 11, wherein said test generator is further adapted to perform the steps of: designating a second one of said resources as a second unidentified resource for accommodation of a second signal that is a second input of said Boolean function, an output of said Boolean function being insensitive to said second input; and avoiding binding said second unidentified resource with

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said second signal during execution of said test case ('862, fig. 5, branch from 122 to 102 depicts iterative operation wherein parameters of subsequent missing commands are not supplied until after execution of prior commands at 118).

Allowable Subject Matter

Claims 13-34 are allowed.

The following is an examiner's statement of reasons for allowance:

The independent claims 13, 18, and 23 recite, "setting a second flag that designates said second resource as being unidentified; including said second resource in a set of unidentified resources that is associated with said first resource, wherein each member of said set has a status flag designating said member as being unidentified; and thereafter performing the steps of identifying said second resource; clearing said second flag; and removing said second resource from said set". This feature in combination with the remaining claimed structure avoids the prior art of record.

The following is an examiner's statement of reasons for allowance:

The independent claims 26, 29, and 32 recite, "excluding said selected member from said set of inputs; removing all remaining members of said set of inputs that are no longer outcome determinative of said Boolean function; iterating said steps of selecting, resolving, excluding and removing until no more than one member remains in said set of inputs; and determining said output resource as a copy of said one

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member". This feature in combination with the remaining claimed structure avoids the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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